

APRIL/MAY 2023

DOCH35A — INDUSTRIAL CHEMISTRY-II

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List out any two differences between solar cells and fuel cells.
2. What are primary cells?
3. Sketch the structure of aldrin.
4. Define the term insecticide.
5. What is main component of LPG?
6. What is coal gas? Write its uses.
7. Explain the term binder pigment.
8. What are synthetic detergents?
9. What is dry process in cements?
10. Define glass.

SECTION B — ( $5 \times 5 = 25$  marks)

Answer ALL questions.

11. (a) Discuss in detail about the batteries.  
Or  
(b) Discuss in detail about fuel cells.
12. (a) What are herbicide? Discuss various categories of herbicide.  
Or  
(b) Give synthesis and uses of DDT.
13. (a) Write notes on LPG and list out the uses of producer gas.  
Or  
(b) Bring out the important uses of water gas and oil gas.
14. (a) Explain about the preparation of toilet and washing soaps.  
Or  
(b) Enlist the important requirements for a good paint.
15. (a) Discuss about lead glass and optical glass.  
Or  
(b) Illustrate about setting of cement and reinforced cement.

SECTION C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

16. Describe in detail about the production of caustic soda, perchlorates and chlorine.
17. Write the synthesis and uses of baygon and malathion.
18. Describe individually about (a) synthetic gas and (b) synthetic petrol. (5+5)
19. Explain about ethanolamine's, sulphonates and corrosion inhibitors.
20. (a) List various types and constituents of cements. (5)  
(b) Give an account on ceramics (5)